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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,507	11/05/2003	Ali Amara	03495.0301	6288	
7590 08/23/2004			EXAMINER		
Finnegan, Henderson, Farabow,			CHEN, STACY BROWN		
Garrett & Duni	,	ART UNIT	PAPER NUMBER		
1300 I Street, N.W. Washington, DC 20005-3315			1648		

DATE MAILED: 08/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				A				
Office Action Summary		Application	on No.	Applicant(s)				
		10/700,50	7	AMARA ET AL.				
		Examiner		Art Unit				
		Stacy B C		1648				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streeply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no even reply within the state riod will apply and will ratute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.			
Status								
1)[汉]	Responsive to communication(s) filed on 0:	5 November 2	003.					
•	·	2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)	4) ☐ Claim(s) 1-80 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-80 are subject to restriction and/or election requirement.							
Applicat	ion Papers							
10)	The specification is objected to by the Exame The drawing(s) filed on is/are: a) applicant may not request that any objection to Replacement drawing sheet(s) including the core The oath or declaration is objected to by the	accepted or b) the drawing(s) b rrection is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF				
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen			4) Interview Summary	(PTO-413)				
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB er No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate)-152)			

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DETAILED ACTION

1. All further correspondence for this application should be directed to Art Unit 1648.

Claims 1-80 are pending and subject to the following Restriction Requirement.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-3, 9-12, 24-28, 39-40 and 42, drawn to a method of preventing or treating a disease using a DC-SIGN modulator/blocker that is a derivative of an effector molecule, classified in class 435, subclass 7.2.
 - Further *restriction* is required from claims 39 and 40. Applicant must elect one of Ebola, HIV or SIV for examination, consistent between the two claims. If Ebola or SIV is elected, claims 1-3, 9-12, 24-28 and 39-40 will be examined. If HIV is elected, claims 1-3, 9-12, 24-28, 39-40 and 42 will be examined.
 - II. Claims 1, 2, 4-6, 9-21, 24-30 and 32-42, drawn to a method of preventing or treating a disease using a DC-SIGN modulator/blocker that is an antibody, classified in class 435, subclass 7.1.
 - Further *restriction* is required from claims 39 and 40. Applicant must elect one of Ebola, HIV or SIV for examination, consistent between the two claims. If Ebola or SIV is elected, claims 1, 2, 4-6, 9-21, 24-30 and 32-41 will be examined. If HIV is elected, claims 1, 2, 4-6, 9-21, 24-30 and 32-42 will be examined.
 - III. Claims 1, 2, 7-12 and 22-28, drawn to a method of preventing or treating a disease using a DC-SIGN modulator/blocker that is a mannosylated molecule, classified in class 435, subclass 7.2.

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- IV. Claims 1, 2, 9-12, 24-28 and 31, drawn to a method of preventing or treating a disease using a DC-SIGN modulator/blocker that is a recombinantly produced protein, classified in class 435, subclass 7.2.
- V. Claims 43-46, drawn to a method of preventing or treating inflammation using a
 DC-SIGN modulator/blocker, classified in class 435, subclass 7.2.
- VI. Claims 47-49 and 65, drawn to a DC-SIGN modulator/blocker that is a derivative of an effector molecule, classified in class 424, subclass 218.1.
- VII. Claims 47-48, 50-58, 65 and 74-80, drawn to a DC-SIGN modulator/blocker that is an antibody, classified in class 424, subclass 147.1.
- VIII. Claims 59-64, drawn to a method of identifying a DC-SIGN modulator/blocker, classified in class 435, subclass 4.
- IX. Claims 66-73, drawn to a method of targeting a subject molecule to a cell expressing a DC-SIGN receptor, classified in class 435, subclass 4.

The inventions are distinct, each from the other because of the following reasons:

- a) Within Groups I and II, there are distinct methods of prevention and treatment. Ebola, HIV and SIV are distinct viruses that require separate searches. Preventative and treatment methods are divergent for these viruses.
- b) Groups I-IV are drawn to distinct methods of prevention and treatment. The methods use different reagents to accomplish prevention or treatment of disease. Group I uses a derivative of an effector molecule, Group II uses antibodies, Group III uses mannosylated molecules and Group V uses mannosylated molecules. These reagents do not share function, modes of operation or effect. These methods are not disclosed as capable of use together.

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- c) Groups I-V, VIII and IX are all drawn to distinct methods of prevention and treatment. Group I is drawn to methods of preventing or treating disease with a derivative of an effector molecule. Group II is drawn to methods of preventing or treating disease using an antibody. Group III is drawn to methods of preventing or treating disease using a mannosylated molecule. Group IV is drawn to a method of preventing or treating disease using a recombinantly produced protein. Group V is drawn to a method of preventing or treating inflammation. Methods of treating Ebola/HIV/SIV with a derivative of an effector molecule use different reagents than methods that use antibodies, recombinantly produced proteins and mannosylated molecules. Methods of treating Ebola/HIV/SIV or other diseases accomplish different functions than a method of treating inflammation. Group VIII is drawn to a method of identifying a product. Group IX is drawn to a method of targeting molecules to cells expressing a receptor. These methods use different reagents and methodology. They have different modes of operation, function and effect. The methods are not disclosed as capable of use together.
- d) Inventions (I-III, VI) and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the derivative of an effector molecule can be used in an immunoassay for detecting antibodies.
- e) Inventions VII and (II, V, IX) are related as product and process of use. The product, an antibody, can be used in a method of purifying cells that express the DC-SIGN receptor.

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- f) Inventions (I, III, IV, VIII) and VII are unrelated. The product of Group VII, an antibody, is not required to practice the methods of Groups I, III, IV, and VIII.
- g) Inventions (II, III, IV, V, VIII) and VI are unrelated. The product of Group VII, the derivative of an effector molecule is not required to practice the methods of Groups II, III, IV, V and VIII.
- h) Inventions VI and VII are unrelated. These products, the derivative of an effector molecule and an antibody are not structurally or functionally related. These products are not disclosed as capable of use together.
- i) Inventions (VI and VII) and VIII are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the products can be isolated from patient samples.
- j) Inventions (VI and VII) and IX are related as product and process of use. The product, derivative of an effector molecule can be used to purify antibodies or proteins.
- 3. Because these inventions are distinct for the reasons given above and the literature search required for one Group is either not required or not co-extensive for any other Group, and therefore burdensome, restriction for examination purposes as indicated is proper. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

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inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

4. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier.

Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product

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claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy B Chen whose telephone number is 571-272-0896. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James C Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stacy B. Chen August 12, 2004 JEFFREY STUCKER
DOMA DV EYAMINES